



2570  
1001

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/052,648  
Source: OIPE  
Date Processed by STIC: 10/1/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

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<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPE

## RAW SEQUENCE LISTING

DATE: 10/01/2002

PATENT APPLICATION: US/10/052,648

TIME: 16:42:28

Input Set : A:\Cura5501.app

Output Set: N:\CRF4\10012002\J052648.raw

3 <110> APPLICANT: Anderson, David  
4 Burgess, Catherine  
5 Casman, Stacie  
6 Colman, Steven  
7 Edinger, Shlomit R.  
8 Ellerman, Karen  
9 Gerlach, Valerie  
10 Gunther, Erik  
11 Kekuda, Ramesh  
12 MacDougall, John R.  
13 Mehraban, Fuad  
14 Patturajan, Meera  
15 Rothenberg, Mark  
16 Shimkets, Richard  
17 Smithson, Glennnda  
18 Spytek, Kimberly A.  
19 Stone, David J.  
20 Vernet, Corine A.M.  
21 Zerhusen, Bryan D.  
23 <120> TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF  
24 USING THE SAME  
26 <130> FILE REFERENCE: 21402-250 (CURA-550)  
28 <140> CURRENT APPLICATION NUMBER: 10/052,648  
29 <141> CURRENT FILING DATE: 2002-01-18  
31 <150> PRIOR APPLICATION NUMBER: 60/262,454  
32 <151> PRIOR FILING DATE: 2001-01-18  
34 <150> PRIOR APPLICATION NUMBER: 60/272,920  
35 <151> PRIOR FILING DATE: 2001-03-02  
37 <150> PRIOR APPLICATION NUMBER: 60/284,549  
38 <151> PRIOR FILING DATE: 2001-04-18  
40 <150> PRIOR APPLICATION NUMBER: 60/303,229  
41 <151> PRIOR FILING DATE: 2001-07-05  
43 <150> PRIOR APPLICATION NUMBER: 60/262,892  
44 <151> PRIOR FILING DATE: 2001-01-19  
46 <150> PRIOR APPLICATION NUMBER: 60/263,605  
47 <151> PRIOR FILING DATE: 2001-01-23  
49 <150> PRIOR APPLICATION NUMBER: 60/269,098  
50 <151> PRIOR FILING DATE: 2001-02-15  
52 <150> PRIOR APPLICATION NUMBER: 60/264,159  
53 <151> PRIOR FILING DATE: 2001-01-25  
55 <150> PRIOR APPLICATION NUMBER: 60/265,517  
56 <151> PRIOR FILING DATE: 2001-01-31  
58 <150> PRIOR APPLICATION NUMBER: 60/271,855

Does Not Comply  
Corrected Diskette Needed  
PP. 2-4-5

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59 <151> PRIOR FILING DATE: 2001-02-27  
 61 <150> PRIOR APPLICATION NUMBER: 60/267,057  
 62 <151> PRIOR FILING DATE: 2001-02-07  
 64 <150> PRIOR APPLICATION NUMBER: 60/286,287  
 65 <151> PRIOR FILING DATE: 2001-04-25  
 67 <160> NUMBER OF SEQ ID NOS: 97  
 69 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

3711 <210> SEQ ID NO: 35  
 3712 <211> LENGTH: 969  
 3713 <212> TYPE: PRT  
 3714 <213> ORGANISM: Homo sapiens  
 3716 <400> SEQUENCE: 35

*see p. 4*

3717	Met	His	Thr	Pro	Ser	Ile	Arg	Ser	Ile	Thr	His	Asp	Ala	Gln	Thr	Ser
3718	1				5					10					15	
3720	Ser	Thr	Gly	Ser	Ser	Ala	Pro	Gly	Thr	Ala	Leu	Cys	Thr	Glu	Glu	Cys
3721				20					25					30		
3723	Val	His	Gly	Arg	Cys	Val	Ser	Pro	Asp	Thr	Cys	His	Cys	Glu	Pro	Gly
3724			35					40					45			
3726	Trp	Gly	Gly	Pro	Asp	Cys	Ser	Ser	Gly	Cys	Asp	Ser	Asp	His	Trp	Gly
3727		50					55				60					
3729	Pro	His	Cys	Ser	Asn	Arg	Cys	Gln	Cys	Gln	Asn	Gly	Ala	Leu	Cys	Asn
3730	65					70					75					80
3732	Pro	Ile	Thr	Gly	Ala	Cys	Val	Cys	Ala	Ala	Gly	Phe	Arg	Gly	Trp	Arg
3733					85					90					95	
3735	Cys	Glu	Glu	Leu	Cys	Ala	Pro	Gly	Thr	His	Gly	Lys	Gly	Cys	Gln	Leu
3736				100					105					110		
3738	Pro	Cys	Gln	Cys	Arg	His	Gly	Ala	Ser	Cys	Asp	Pro	Arg	Ala	Gly	Glu
3739			115					120					125			
3741	Cys	Leu	Cys	Ala	Pro	Gly	Tyr	Thr	Gly	Val	Tyr	Cys	Glu	Glu	Leu	Cys
3742		130					135					140				
3744	Pro	Pro	Gly	Ser	His	Gly	Ala	His	Cys	Glu	Leu	Arg	Cys	Pro	Cys	Gln
3745	145					150					155					160
3747	Asn	Gly	Gly	Thr	Cys	His	His	Ile	Thr	Gly	Glu	Cys	Ala	Cys	Pro	Pro
3748					165					170					175	
3750	Gly	Trp	Thr	Gly	Ala	Val	Cys	Ala	Gln	Pro	Cys	Pro	Pro	Gly	Thr	Phe
3751				180					185					190		
3753	Gly	Gln	Asn	Cys	Ser	Gln	Asp	Cys	Pro	Cys	His	His	Gly	Gly	Gln	Cys
3754			195					200					205			
3756	Asp	His	Val	Thr	Gly	Gln	Cys	His	Cys	Thr	Ala	Gly	Tyr	Met	Gly	Asp
3757		210					215					220				
3759	Arg	Cys	Gln	Glu	Glu	Cys	Pro	Phe	Gly	Ser	Phe	Gly	Phe	Gln	Cys	Ser
3760	225					230					235					240
3762	Gln	His	Cys	Asp	Cys	His	Asn	Gly	Gly	Gln	Cys	Ser	Pro	Thr	Thr	Gly
3763					245					250					255	
3765	Ala	Cys	Glu	Cys	Glu	Pro	Gly	Tyr	Lys	Gly	Pro	Arg	Cys	Gln	Glu	Arg

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3766          260          265          270
3768 Leu Cys Pro Glu Gly Leu His Gly Pro Gly Cys Thr Leu Pro Cys Pro
3769          275          280          285
3771 Cys Asp Ala Asp Asn Thr Ile Ser Cys His Pro Val Thr Gly Ala Cys
3772          290          295          300
3774 Thr Cys Gln Pro Gly Trp Ser Gly His His Cys Asn Glu Ser Cys Pro
3775 305          310          315          320
3777 Val Gly Tyr Tyr Gly Asp Gly Cys Gln Leu Pro Cys Thr Cys Gln Asn
3778          325          330          335
3780 Gly Ala Asp Cys His Ser Ile Thr Gly Gly Cys Thr Cys Ala Pro Gly
3781          340          345          350
3783 Phe Met Gly Glu Val Cys Ala Val Ser Cys Ala Ala Gly Thr Tyr Gly
3784          355          360          365
3786 Pro Asn Cys Ser Ser Ile Cys Ser Cys Asn Asn Gly Gly Thr Cys Ser
3787          370          375          380
3789 Pro Val Asp Gly Ser Cys Thr Cys Lys Glu Gly Trp Gln Gly Leu Asp
3790 385          390          395          400
3792 Cys Thr Leu Pro Cys Pro Ser Gly Thr Trp Gly Leu Asn Cys Asn Glu
3793          405          410          415
3795 Ser Cys Thr Cys Ala Asn Gly Ala Ala Cys Ser Pro Ile Asp Gly Ser
3796          420          425          430
3798 Cys Ser Cys Thr Pro Gly Trp Leu Gly Asp Thr Cys Glu Leu Pro Cys
3799          435          440          445
3801 Pro Asp Gly Thr Phe Gly Leu Asn Cys Ser Glu His Cys Asp Cys Ser
3802          450          455          460
3804 His Ala Asp Gly Cys Asp Pro Val Thr Gly His Cys Cys Cys Leu Ala
3805 465          470          475          480
3807 Gly Trp Thr Gly Ile Arg Cys Asp Ser Thr Cys Pro Pro Gly Arg Trp
3808          485          490          495
3810 Gly Pro Asn Cys Ser Val Ser Cys Ser Cys Glu Asn Gly Gly Ser Cys
3811          500          505          510
3813 Ser Pro Glu Asp Gly Ser Cys Glu Cys Ala Pro Gly Phe Arg Gly Pro
3814          515          520          525
3816 Leu Cys Gln Arg Ile Cys Pro Gly Phe Tyr Gly His Gly Cys Ala
3817          530          535          540
3819 Gln Pro Cys Pro Leu Cys Val His Ser Ser Arg Pro Cys His His Ile
3820 545          550          555          560
3822 Ser Gly Ile Cys Glu Cys Leu Pro Gly Phe Ser Gly Ala Leu Cys Asn
3823          565          570          575
3825 Gln Val Cys Ala Gly Gly Tyr Phe Gly Gln Asp Cys Ala Gln Leu Cys
3826          580          585          590
3828 Ser Cys Ala Asn Asn Gly Thr Cys Ser Pro Ile Asp Gly Ser Cys Gln
3829          595          600          605
3831 Cys Phe Pro Gly Trp Ile Gly Lys Asp Cys Ser Gln Ala Cys Pro Pro
3832          610          615          620
3834 Gly Phe Trp Gly Pro Ala Cys Phe His Ala Cys Ser Cys His Asn Gly
3835 625          630          635          640
3837 Ala Ser Cys Ser Ala Glu Asp Gly Ala Cys His Cys Thr Pro Gly Trp
3838          645          650          655

```

## RAW SEQUENCE LISTING

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DATE: 10/01/2002

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Input Set : A:\Cura5501.app

Output Set: N:\CRF4\10012002\J052648.raw

```

3840 Thr Gly Leu Phe Cys Thr Gln Arg Cys Pro Ala Ala Phe Phe Gly Lys
3841                660                665                670
3843 Asp Cys Gly Arg Val Cys Gln Cys Gln Asn Gly Ala Ser Cys Asp His
3844                675                680                685
3846 Ile Ser Gly Lys Cys Thr Cys Arg Thr Gly Phe Thr Gly Gln His Cys
3847                690                695                700
3849 Glu Gln Arg Cys Ala Pro Gly Thr Phe Gly Tyr Gly Cys Gln Gln Leu
3850 705                710                715                720
3852 Cys Glu Cys Met Asn Asn Ser Thr Cys Asp His Val Thr Gly Thr Cys
3853                725                730                735
3855 Tyr Cys Ser Pro Gly Phe Lys Gly Ile Arg Cys Asp Gln Ala Ala Leu
3856                740                745                750
3858 Met Met Glu Leu Asn Pro Tyr Thr Lys Ile Ser Pro Ala Leu Gly
3859                755                760                765
3861 Ala Glu Arg His Ser Val Gly Ala Val Thr Gly Ile Met Leu Leu Leu
3862                770                775                780
3864 Phe Leu Ile Val Val Leu Leu Gly Leu Phe Ala Trp His Arg Arg Arg
3865 785                790                795                800
3867 Gln Lys Glu Lys Gly Arg Asp Leu Ala Pro Arg Val Ser Tyr Thr Pro
3868                805                810                815
3870 Ala Met Arg Met Thr Ser Thr Asp Tyr Ser Leu Ser Gly Ala Cys Gly
3871                820                825                830
E--> 3873 Met Asp Arg Arg Gln Asn Thr Tyr Ile Met Asp Lys Gly Phe Lys Xaa
3874                835                840                845
E--> 3876 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
3877                850                855                860
E--> 3879 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
3880 865                870                875                880
E--> 3882 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Met Lys Ser Pro Val His Met
3883                885                890                895
3885 Gly Ser Pro Tyr Thr Asp Val Pro Ser Leu Ser Thr Ser Asn Lys Asn
3886                900                905                910
3888 Ile Tyr Glu Val Glu Pro Thr Val Ser Val Val Gln Glu Gly Cys Gly
3889                915                920                925
3891 His Asn Ser Ser Tyr Ile Gln Asn Ala Tyr Asp Leu Pro Arg Asn Ser
3892                930                935                940
3894 His Ile Pro Gly His Tyr Asp Leu Leu Pro Val Arg Gln Ser Pro Ala
3895 945                950                955                960
3897 Asn Gly Pro Ser Gln Asp Lys Gln Ser
3898                965

```

*see p.5  
for error  
explanation*

## VARIABLE LOCATION SUMMARY

DATE: 10/01/2002

PATENT APPLICATION: US/10/052,648

TIME: 16:42:30

Input Set : A:\Cura5501.app

Output Set: N:\CRF4\10012002\J052648.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:13; N Pos. 1408

Seq#:14; Xaa Pos. 203

Seq#:15; N Pos. 2004

Seq#:35; Xaa Pos. 848,849,850,851,852,853,854,855,856,857,858,859,860,861

Seq#:35; Xaa Pos. 862,863,864,865,866,867,868,869,870,871,872,873,874,875

Seq#:35; Xaa Pos. 876,877,878,879,880,881,882,883,884,885,886,887,888,889

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/052,648

DATE: 10/01/2002

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Input Set : A:\Cura5501.app

Output Set: N:\CRF4\10012002\J052648.raw

L:1553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1380  
 L:1624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:192  
 L:1696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:1980  
 L:3873 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:35  
 M:340 Repeated in SeqNo=35